

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7

Tel.: 450 641-3330

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Shipping Order

25/09/2014

Order : 100009
Reference : 25917
Bid : 11128
Ship : PICK UP / PICK UP

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Deliver	B/O Qty
AS0324814424	ALU 2024T3 SHE .032 X 48 X 144 6 PCES HT: 684432A8	6	6	Ø
AS0404814424	2024 T3 CLAD .040" X 48" X 144" 4 PCES HT: 687431A7	4	4	Ø

SHIP VENDREDI SANS FAUTE TST COLLECT
JP

14/9/20

Shipping : _____
Package No : _____

Ref. : _____

Merchandise Received: _____

SHIP TO:

SOLD TO:

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4341101

CUSTOMER PO NUMBER: C68780		WORK PACKAGE:	CUSTOMER PART NUMBER:		SHIP RUN/LOAD: 102971/9	GOVT CONTRACT NUMBER:	
KAISER ORDER NO: 1175157	LINE ITEM: 1	SHIP DATE: 24-JUL-2014	ALLOY: 2024	CLAD: ALCLAD	TEMPER: T3	PRODUCT DESCRIPTION: HT Flat Sheet	
WEIGHT SHIPPED: 6487 LB	QUANTITY: 231 PCS EST.	TRUCK B/L #: 2049013	GAUGE: 0.0400 IN (1.0160 MM)		DIAMETER/MDTH: 48.000 IN (1219.2 MM)	LENGTH: 144.000 IN (3657.6 MM)	

MHU 1805551: LOT 687431A7: 151 pieces; **D88046**.
MHU 1805681: LOT 694668A5: 80 pieces; **47**.

Certified Specifications

DAS
23 14-10-3
9-89

AMS4462
CMMP 019/RevD

AMS-QQ-A-250/5/RevB
CMMP 025/RevU

ASTM B 209/Rev10

Test Code: 1505

Test Results

Lot: **687431A7** Cast 687

Drop 89

Ingot 2

Melted in USA

(ASTM E8/B557)
(EN 2002-1)

Tensile: Temper
T3

Dir / # Tests
LT / 2 (Min:Max)

Ultimate KSI (MPA)
61.6 : 61.8
(425 : 426)

Yield KSI (MPA)
41.7 : 41.8
(288 : 288)

Elongation %
16.2 : 18.9

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.10	0.20	4.5	0.56	1.3	0.01	0.09	0.02	0.01	0.00	TOT 0.04

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4341101

Lot: 694668A5 Cast 687 Drop 49 Ingot 1 Melted in USA

(ASTM E8/B557)
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	61.4 : 61.5 (423 : 424)	41.7 : 41.7 (288 : 288)	16.1 : 16.4

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.09	0.19	4.5	0.55	1.4	0.01	0.12	0.02	0.01	0.00	TOT 0.03

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024												
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15
Liner Alloy:	1230											
MIN(wt%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	EACH	0.03
MAX(wt%)	0.25	0.30	0.10	0.05	0.05	0.03	0.05	0.03	0.03	0.03	TOT	0.00

Aluminum Remainder

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO 9001:2008/AS9100C certified and hereby certifies that all material shipped under this order:

- * has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements.
- * was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- * has been thermally processed in compliance with AMS 2772, where applicable.
- * is mercury free, within the limits of detection of ASTM E1251 (< = 1ppm).
- * is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- * is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, (EC) n°1907/2006.
- * is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



JAMES HEMENWAY, LABORATORIES SUPERVISOR

SHIP TO:
SOLD TO:

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4335206

CUSTOMER PO NUMBER: C68480		WORK PACKAGE:	CUSTOMER PART NUMBER:		SHIP RUN/LOAD: 102931/6	GOVT CONTRACT NUMBER:
KAISER ORDER NO: 1172151	LINE ITEM: 5	SHIP DATE: 30-MAY-2014	ALLOY: 2024	CLAD: ALCLAD	TEMPER: T3	PRODUCT DESCRIPTION: HT Flat Sheet
WEIGHT SHIPPED: 6661 LB	QUANTITY: 292 PCS EST.	TRUCK B/L #: 2048127	GAUGE: 0.0320 IN (0.8128 MM)		DIAMETER/WIDTH: 48.000 IN (1219.2 MM)	LENGTH: 144.000 IN (3657.6 MM)

MHU 1783916: LOT 684432AB: 101 pieces; 2634649
MHU 1783918: LOT 684432AB: 191 pieces; 50

Certified Specifications

AMS4462
CMMP 019/RevD

AMS-QQ-A-250/5/RevB
CMMP 025/RevU

ASTM B 209/Rev10

Test Code: 1505

Test Results

Lot: 684432AB Cast 674 Drop 71 Ingot 4 Melted in USA

(ASTM E8/B557)
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	61.3 : 62.2 (423 : 429)	40.8 : 41.8 (281 : 288)	16.8 : 17.0

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.19	4.6	0.55	1.4	0.01	0.09	0.01	0.01	0.00	TOT 0.04

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024												
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15
Liner Alloy:	1230											
MIN(wt%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	EACH	0.03
MAX(wt%)	0.25	0.30	0.10	0.05	0.05	0.03	0.05	0.03	0.03	0.03	TOT	0.00

Aluminum Remainder



Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4335206

CERTIFICATION

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- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1251 (< 1 ppm).
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- is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, (EC) n°1907/2006.
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JAMES HEMENWAY, LABORATORIES SUPERVISOR



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO25917**

Purchase Order Date 9/25/2014

PO Print Date 9/25/2014

Page Number 1 of 2

Order From :

VC-MET002

Ship To : DART AEROSPACE LTD

METAUX SOLUTIONS
2625 BOUL JACQUES-CARTIER EST
LONGUEUIL, QC J4N 1L7
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED

Contact Name

Vendor Phone

800 558 8858

Ship To Contact

Ship To Phone

Ship Via:

TST Overland

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M2024T3S.032	2024-T3 .032 sheet	9/29/2014 Yes 9/29/2014		288.00 sf	\$6.77	\$1,950.00
MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209							
Line Total:							\$1,950.00
2	M2024T3S.040	2024-T3 .040 sheet	9/29/2014 Yes 9/29/2014		192.00 sf	\$7.98	\$1,532.00
MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209							
Line Total:							\$1,532.00

PO 149/30

Note:

9/25/2014



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO25917**

Purchase Order Date 9/25/2014

PO Print Date 9/25/2014

Page Number 2 of 2

Order From :
METAUX SOLUTIONS
2625 BOUL JACQUES-CARTIER EST
LONGUEUIL, QC J4N 1L7
CA

VC-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

800 558 8858

Ship To Contact

Ship To Phone

Ship Via:

TST Overland

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

3 71401-45

9/29/2014

1.00

\$0.00

\$0.00

No

9/29/2014

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

Line Total:

\$0.00

PO Total:

\$3,482.00

h cd

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

1

Change Date:

9/25/2014